

FIG. 1

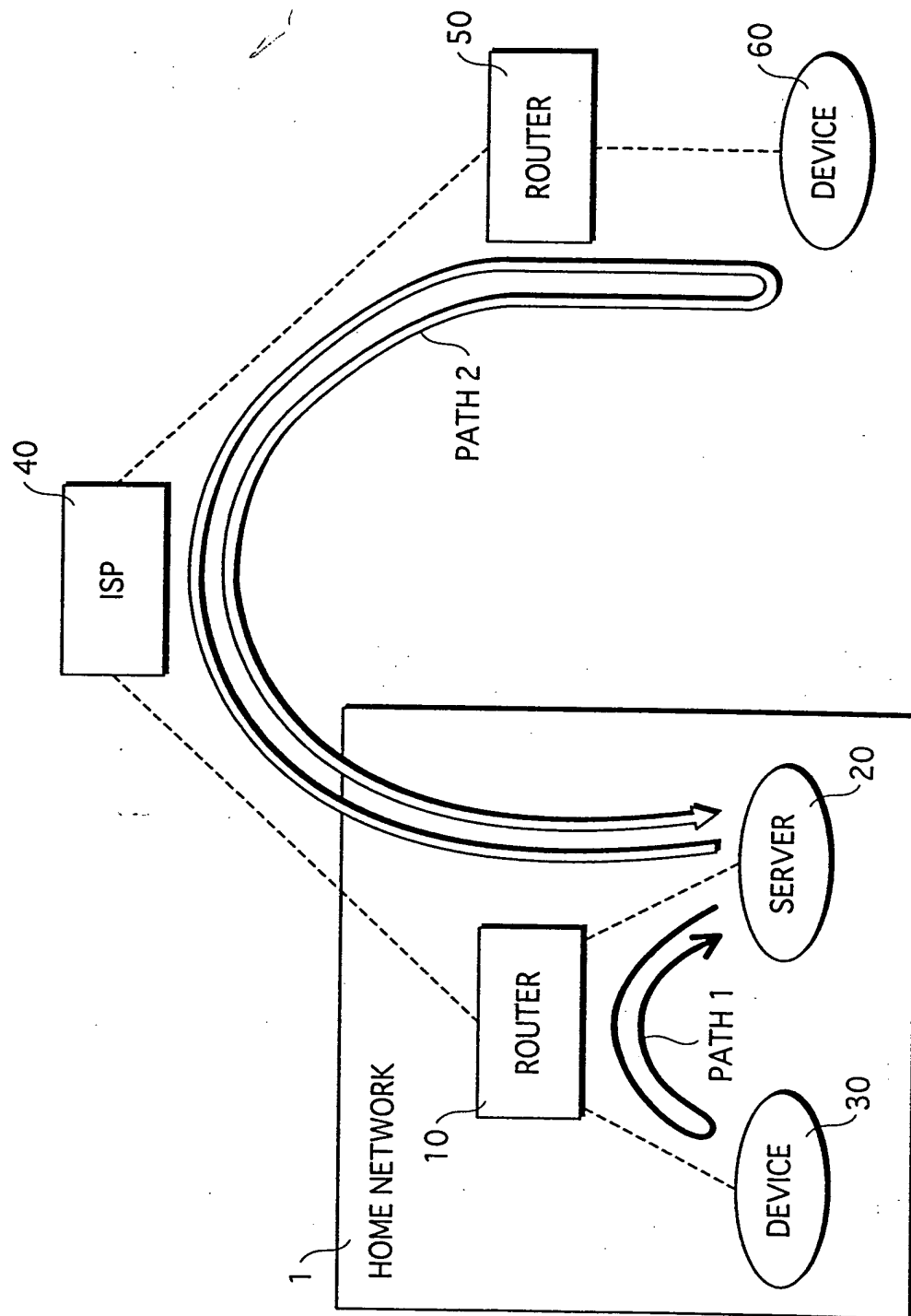


FIG.2

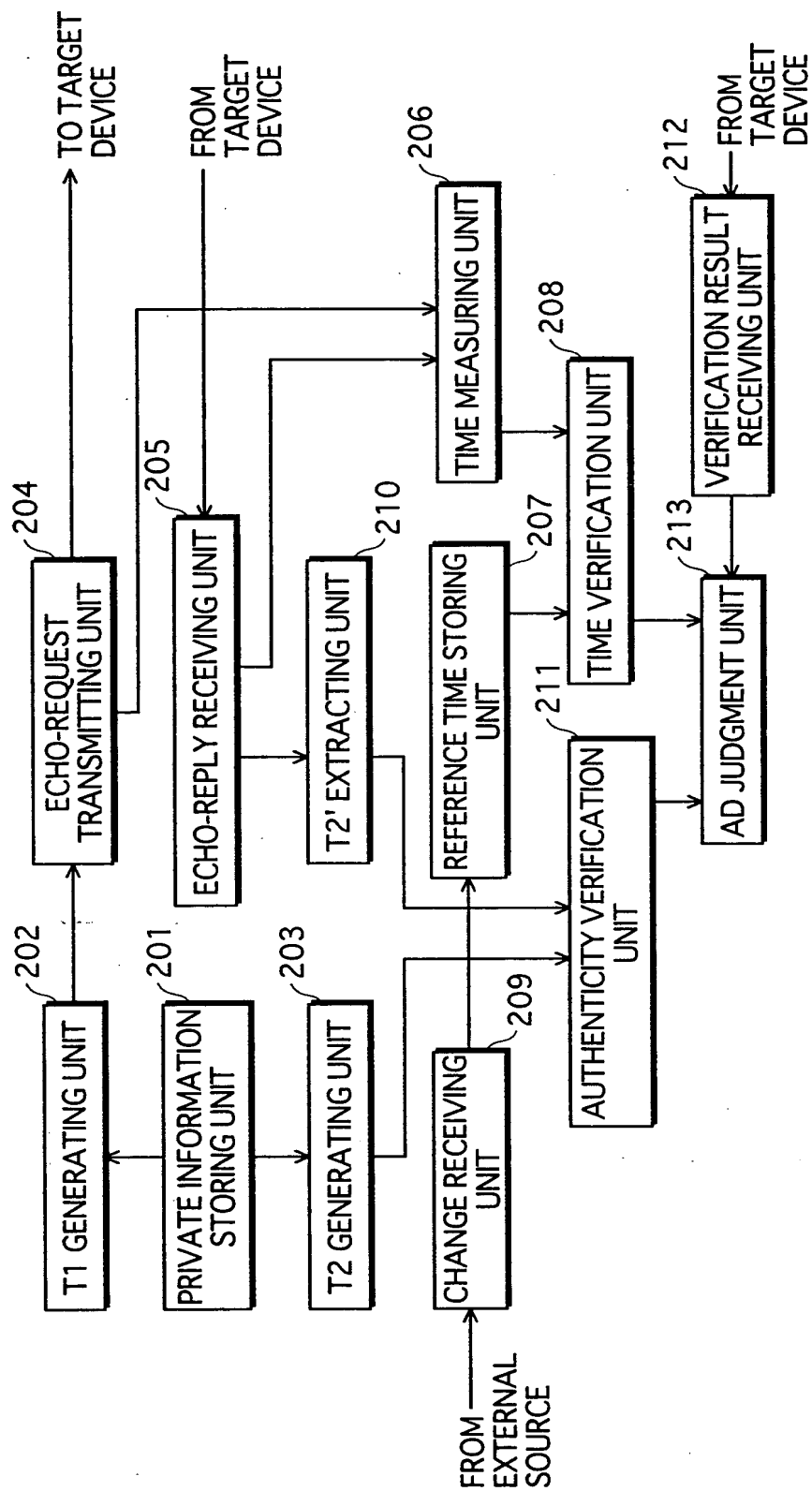


FIG.3

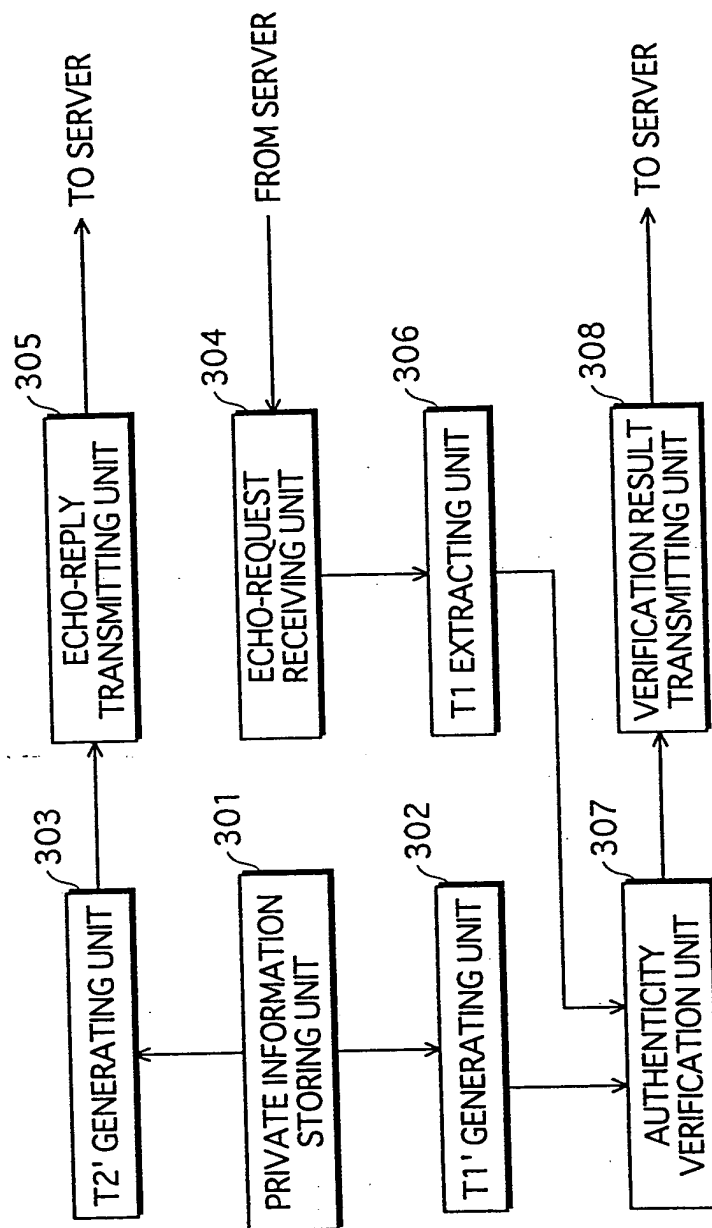
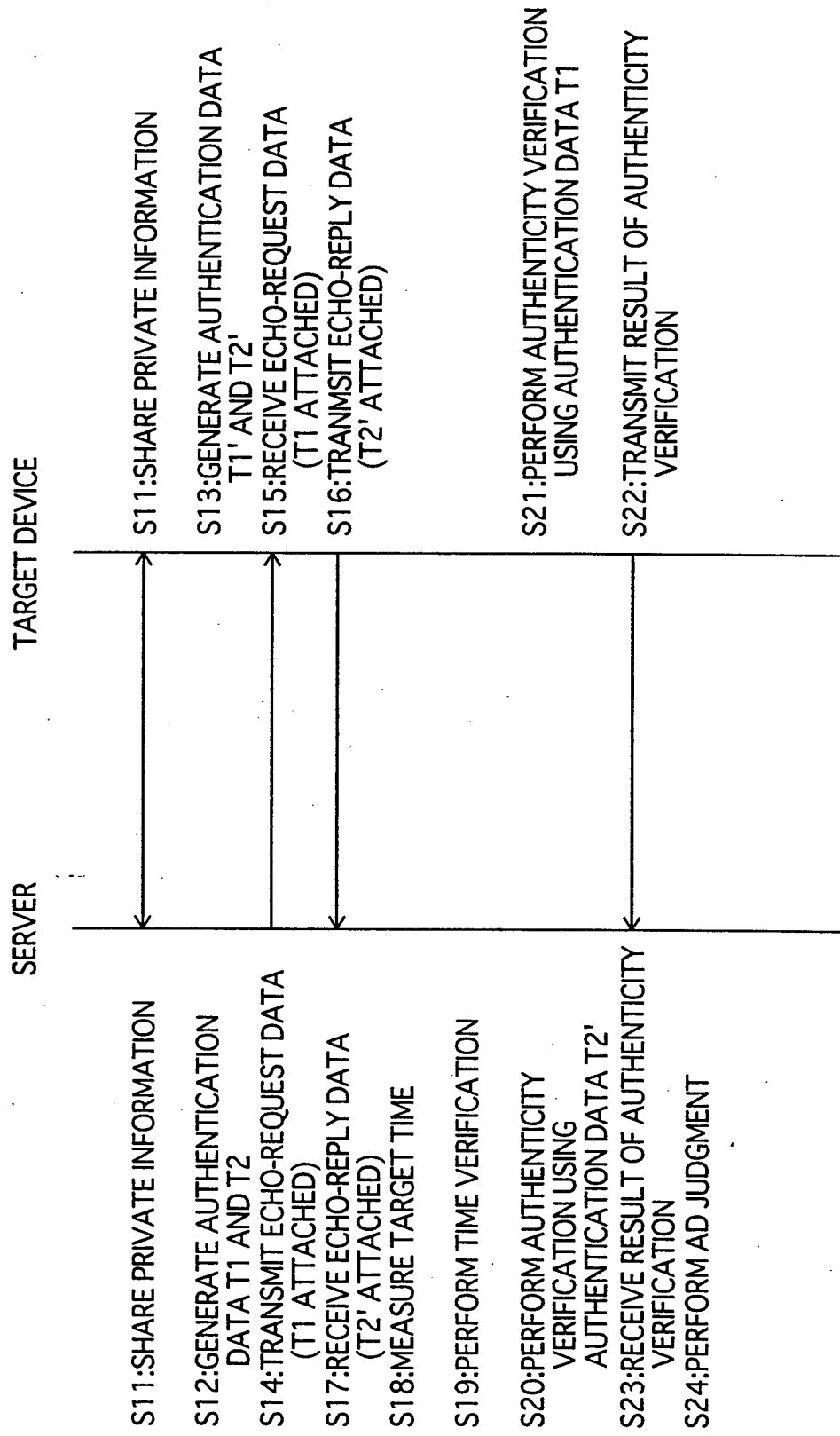


FIG.4



G.5

The diagram illustrates a target device authentication system with the following components and data flow:

- External Source:** Provides input to the **CHANGE RECEIVING UNIT (209)**.
- Private Information Storing Unit (201):** Connected to the **T1 GENERATING UNIT (202)** and the **T2 GENERATING UNIT (203)**.
- T1 GENERATING UNIT (202):** Outputs to the **ECHO-REQUEST TRANSMITTING UNIT (204)**.
- T2 GENERATING UNIT (203):** Outputs to the **REFERENCE TIME STORING UNIT (221)** and the **REFERENCE TIME SELECTING UNIT (224)**.
- ECHO-REQUEST TRANSMITTING UNIT (204):** Outputs to the **TO TARGET DEVICE**.
- ECHO-REPLY RECEIVING UNIT (205):** Receives input from the **FROM TARGET DEVICE** and outputs to the **T2' EXTRACTING UNIT (210)**.
- T2' EXTRACTING UNIT (210):** Outputs to the **REFERENCE TIME STORING UNIT (221)** and the **TIME MEASURING UNIT (206)**.
- REFERENCE TIME STORING UNIT (221):** Outputs to the **REFERENCE TIME SELECTING UNIT (224)**.
- TIME MEASURING UNIT (206):** Outputs to the **TIME VERIFICATION UNIT (208)**.
- MEDIUM DETECTING UNIT (222):** Receives input from the **FROM TARGET DEVICE** and outputs to the **AUTHENTICITY VERIFICATION UNIT (211)**.
- MEDIUM INFORMATION RECEIVING UNIT (223):** Receives input from the **FROM TARGET DEVICE** and outputs to the **AUTHENTICITY VERIFICATION UNIT (211)**.
- REFERENCE TIME SELECTING UNIT (224):** Outputs to the **AUTHENTICITY VERIFICATION UNIT (211)**.
- AUTHENTICITY VERIFICATION UNIT (211):** Outputs to the **AD JUDGMENT UNIT (213)**.
- TIME VERIFICATION UNIT (208):** Outputs to the **AD JUDGMENT UNIT (213)**.
- AD JUDGMENT UNIT (213):** Outputs to the **VERIFICATION RESULT RECEIVING UNIT (212)**.
- VERIFICATION RESULT RECEIVING UNIT (212):** Receives input from the **FROM TARGET DEVICE**.

FIG.6

FIRST CONNECTING MEDIUM SECOND CONNECTING MEDIUM	100Base (IEEE802.3)	IEEE 802.11a	IEEE 802.11b
	100Base(IEEE802.3)	Ref2	Ref3
100Base(IEEE802.3)	Ref1	Ref2	Ref3
IEEE802.11a	Ref2	Ref2	Ref3
IEEE802.11b	Ref3	Ref3	Ref3

FIG. 7

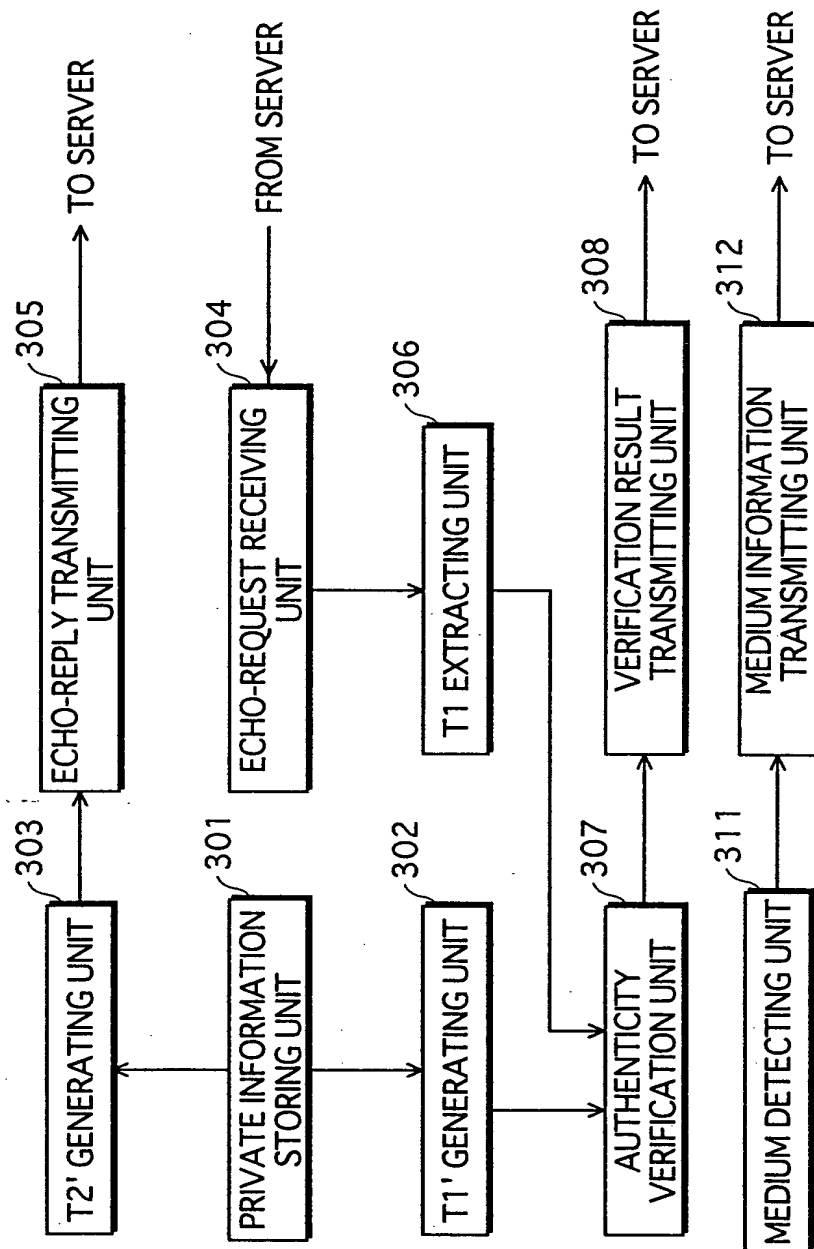


FIG.8

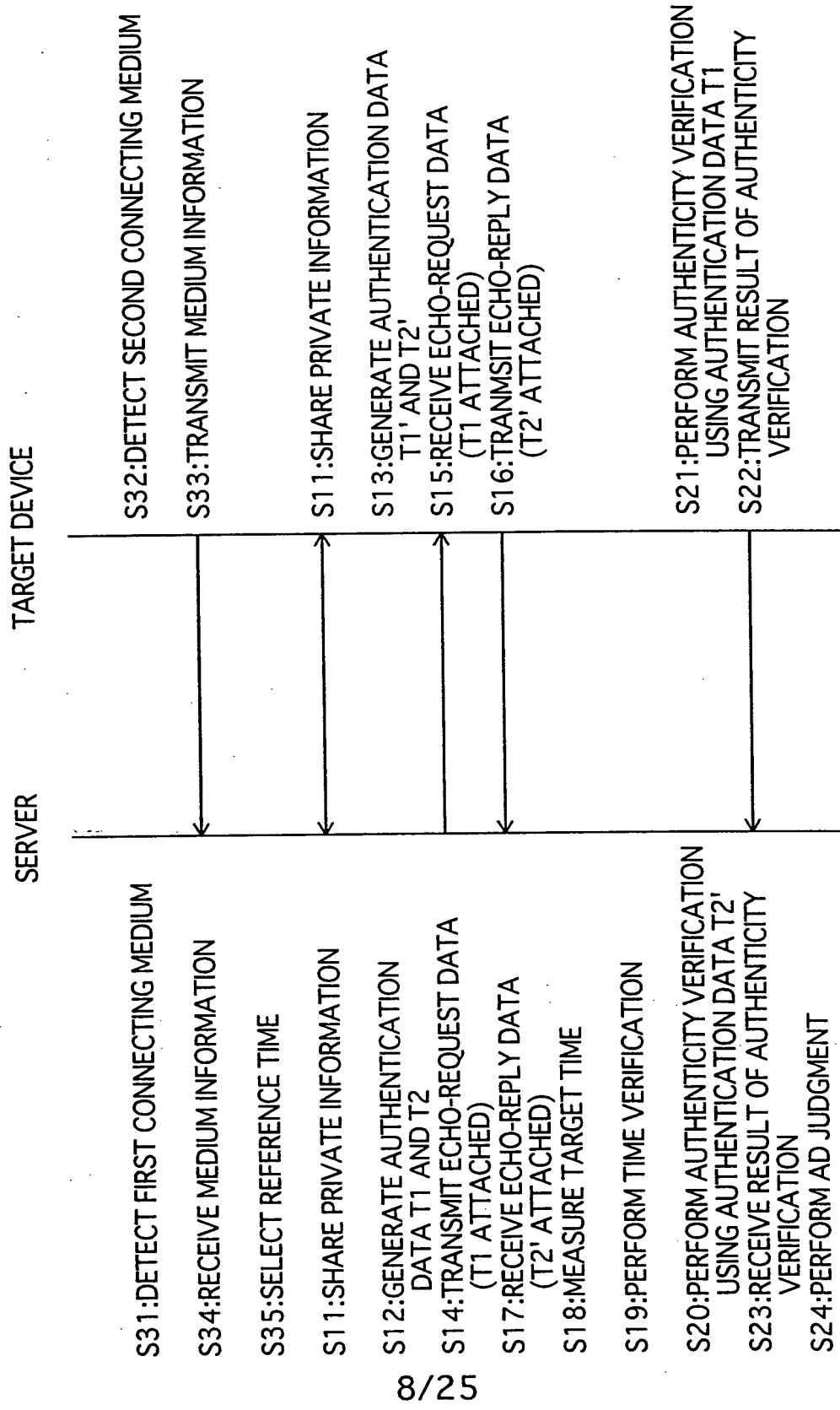


FIG.9

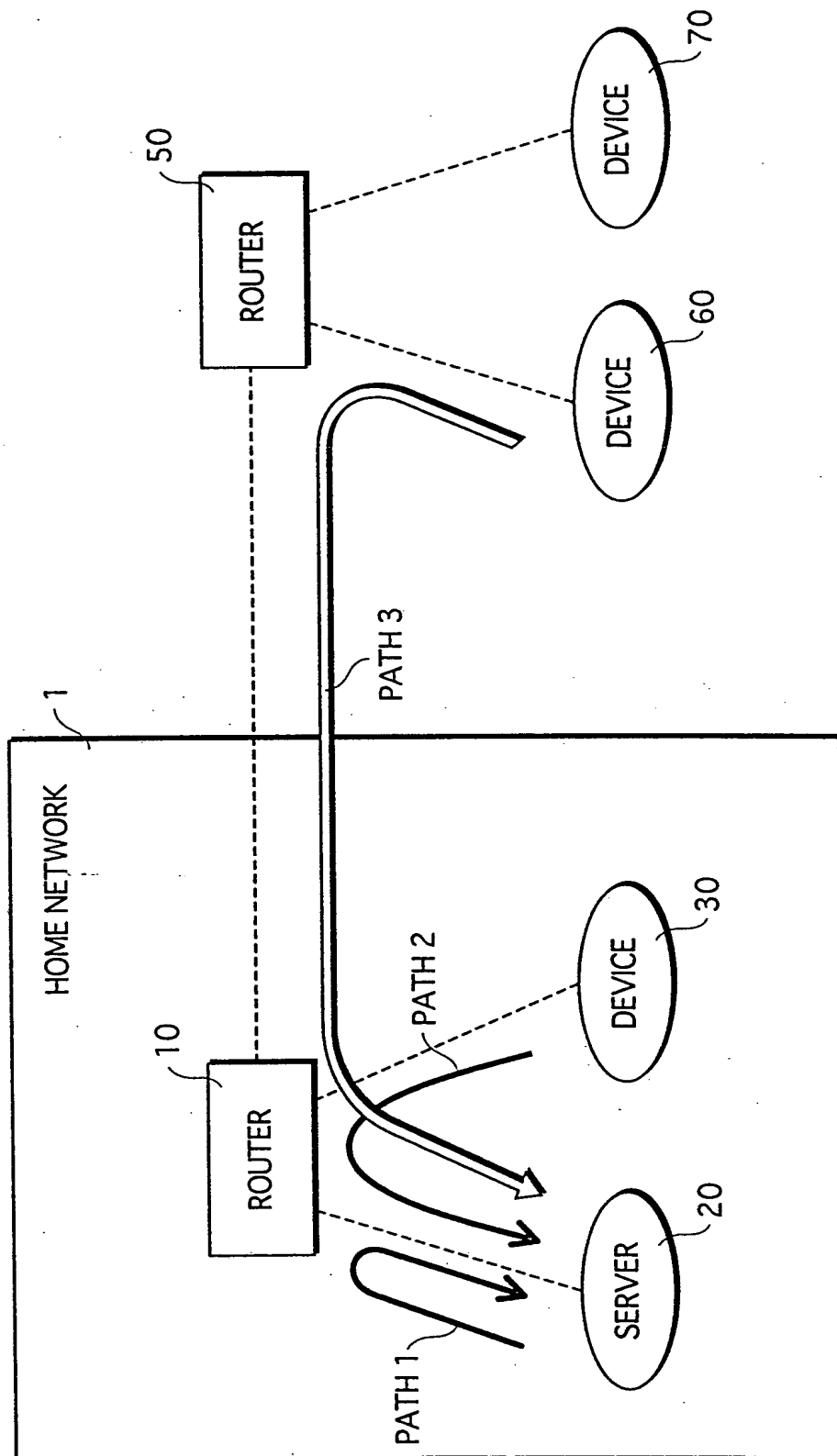


FIG. 10

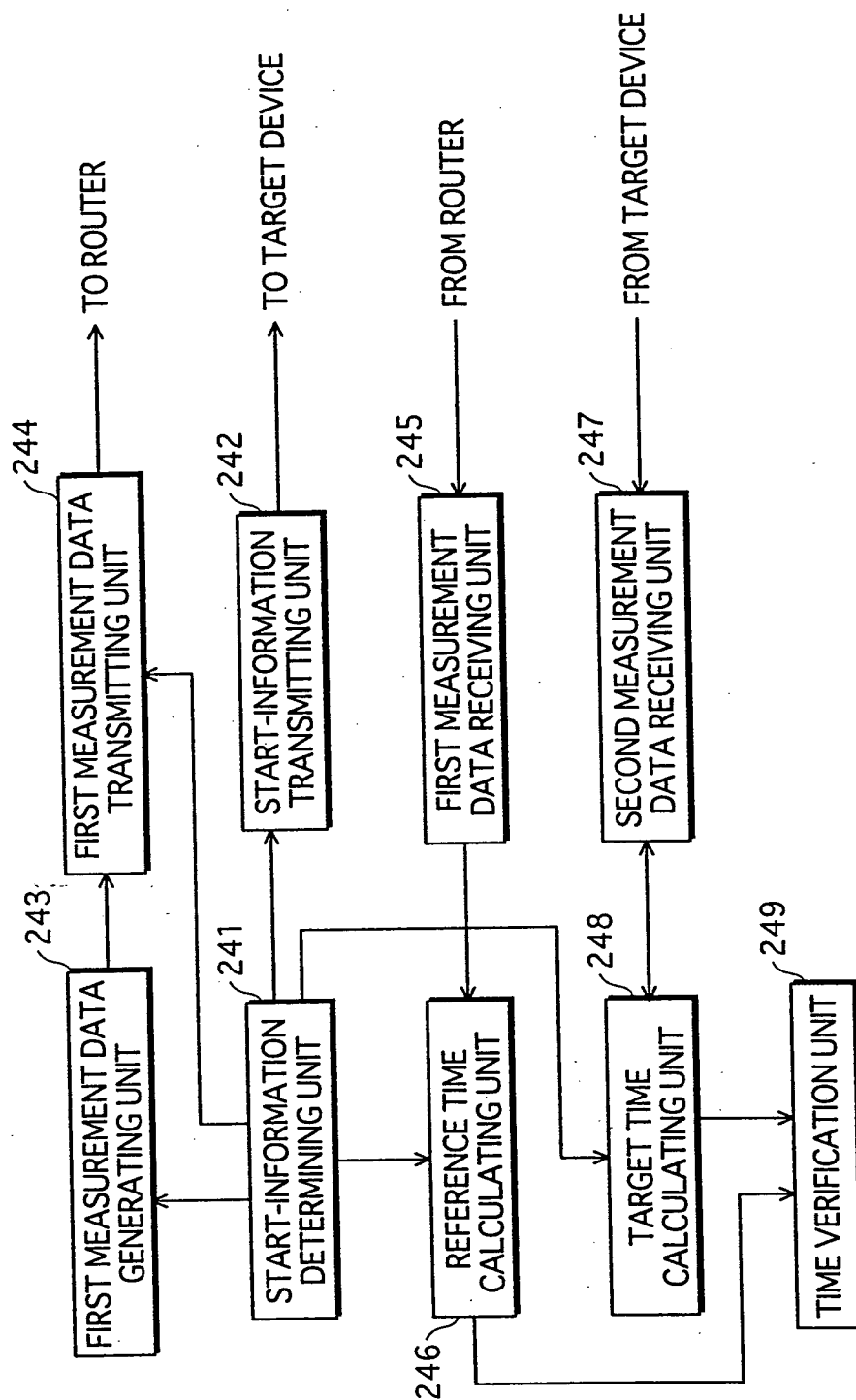


FIG.11

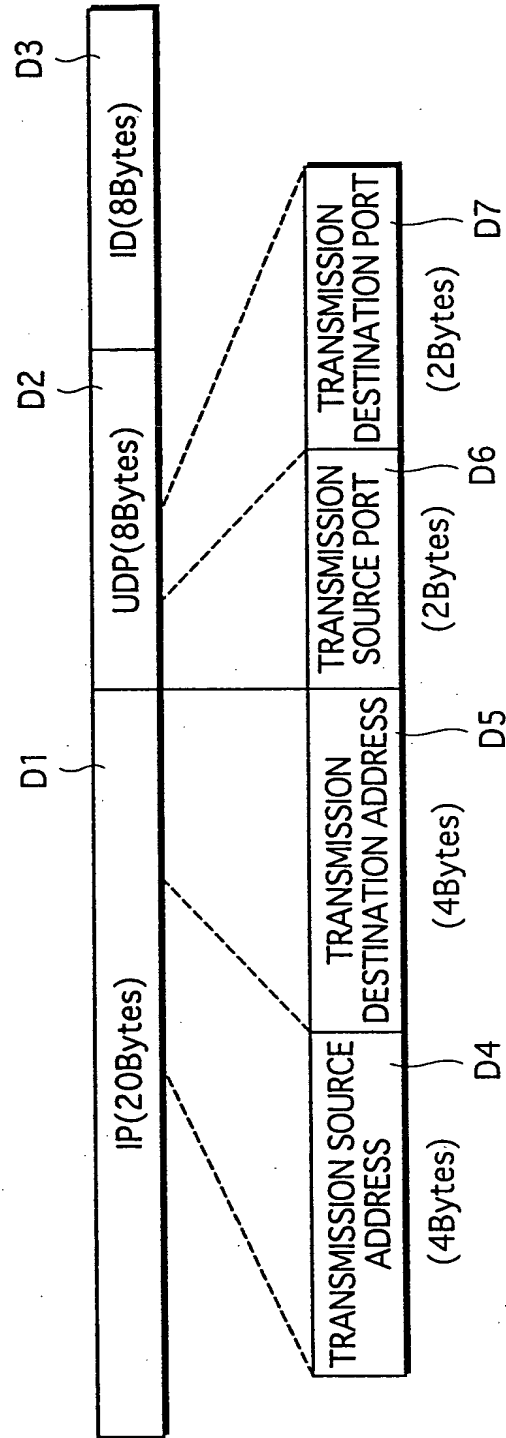


FIG.12

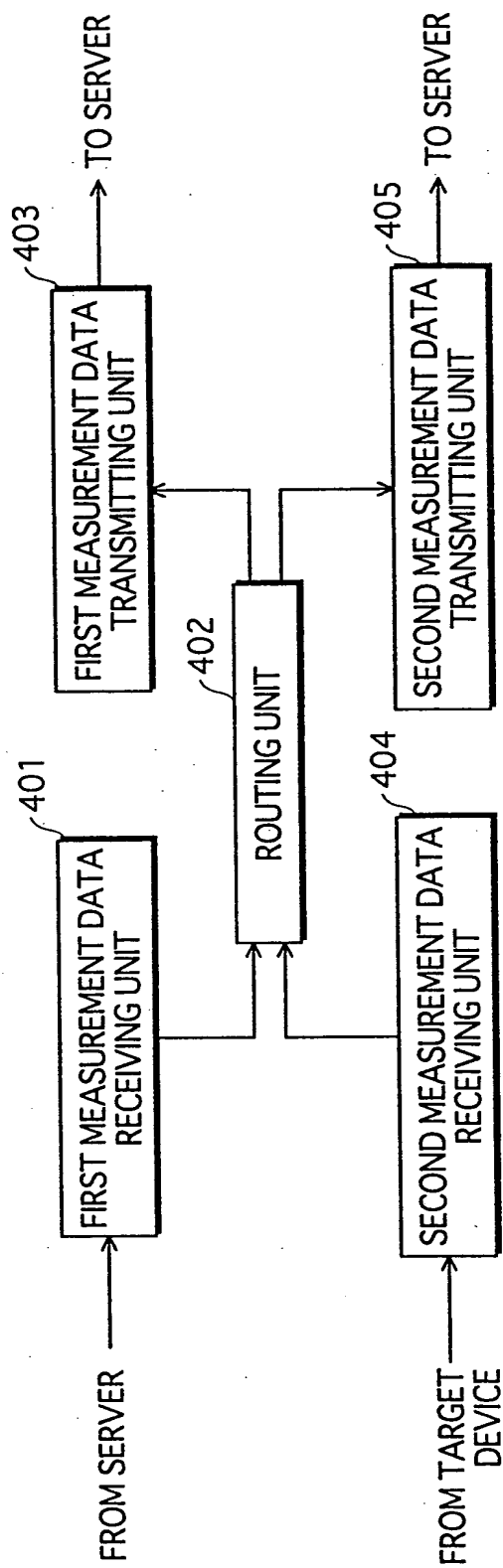


FIG.13

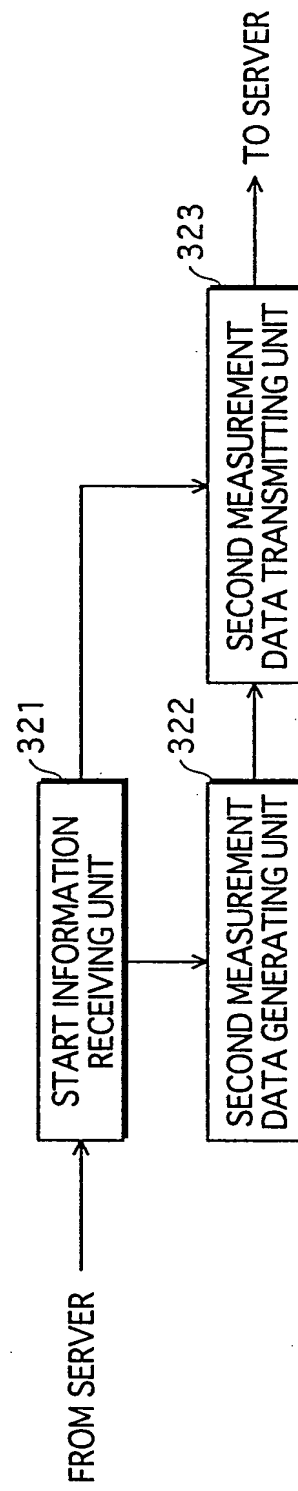


FIG.14

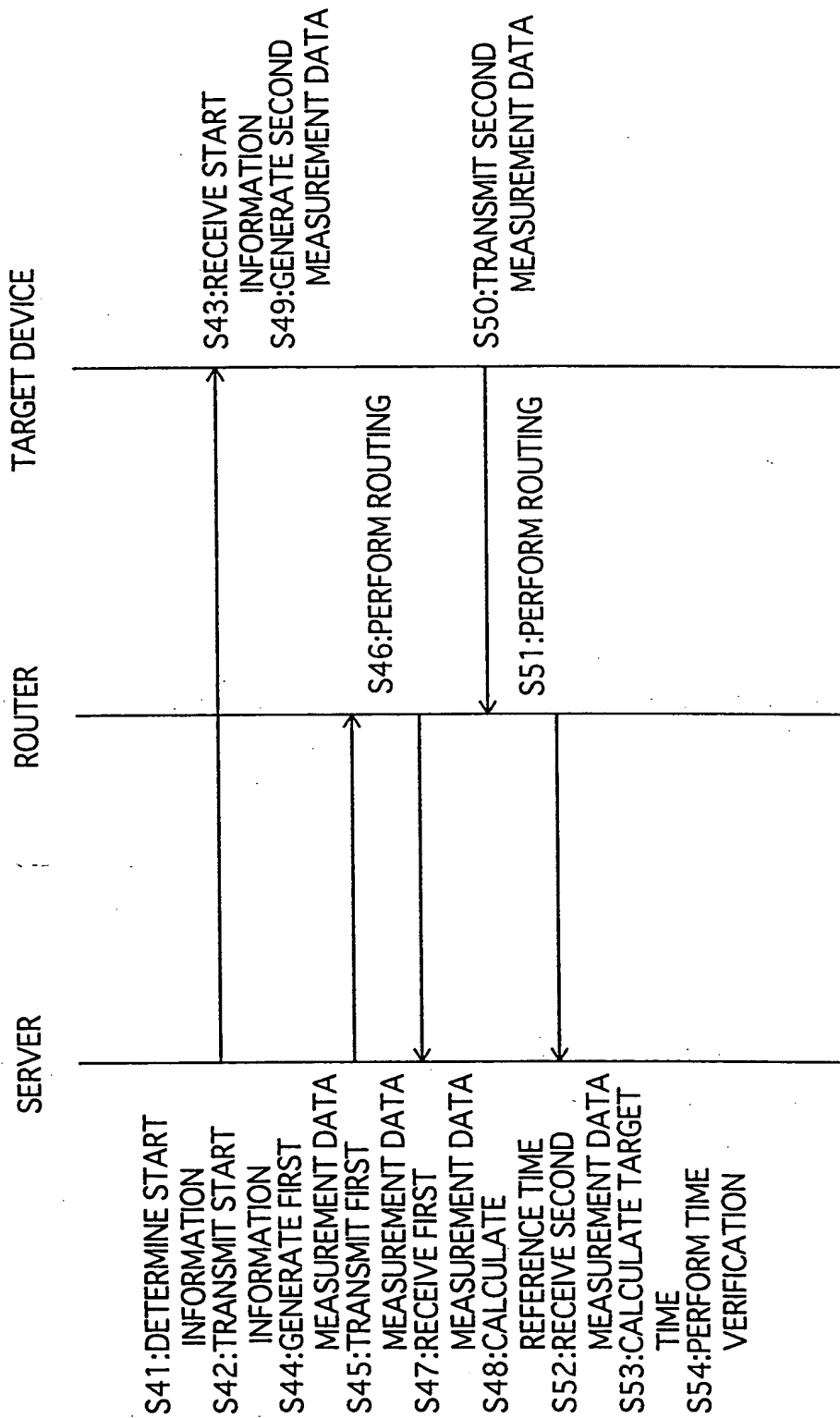


FIG.15

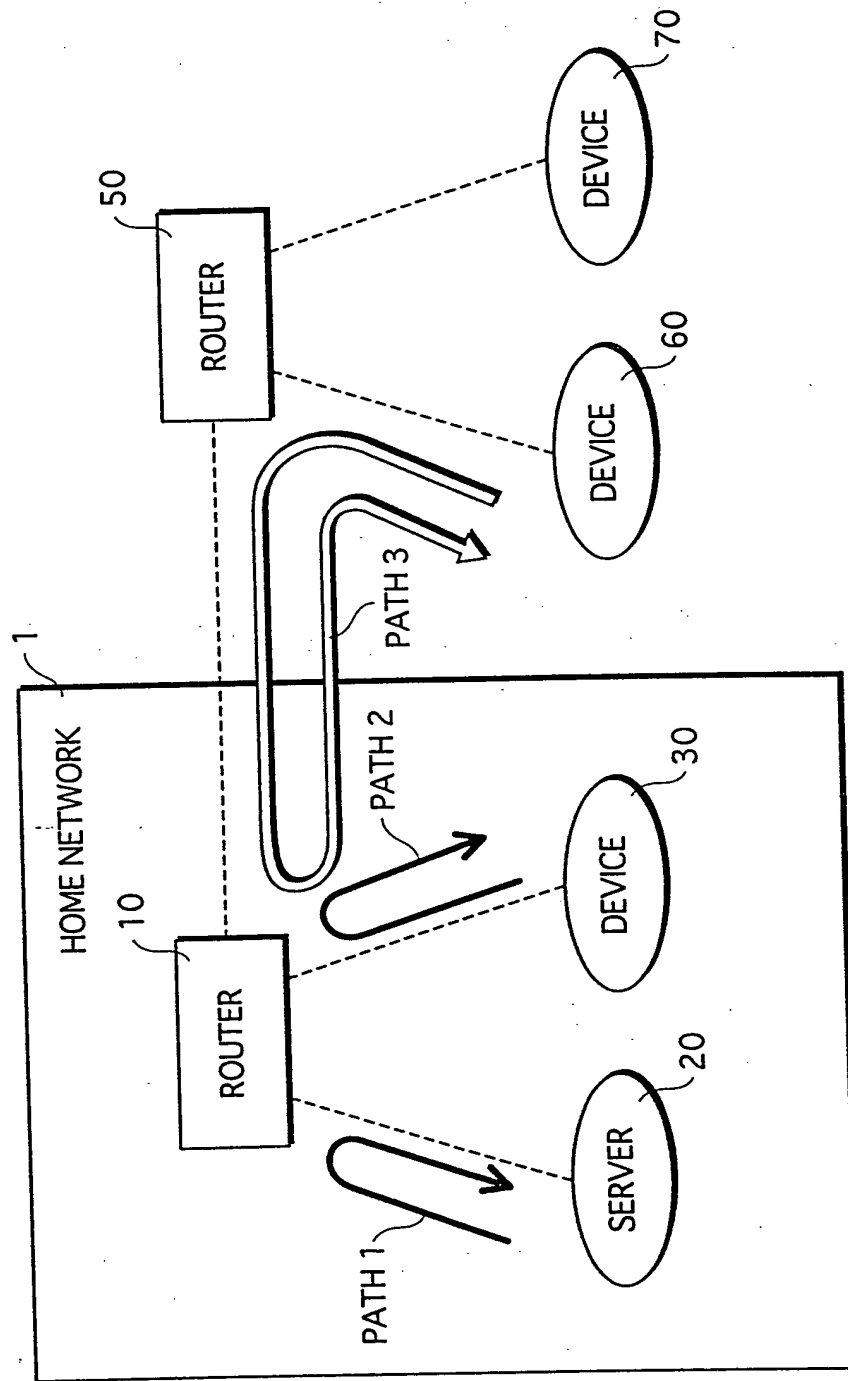


FIG.16

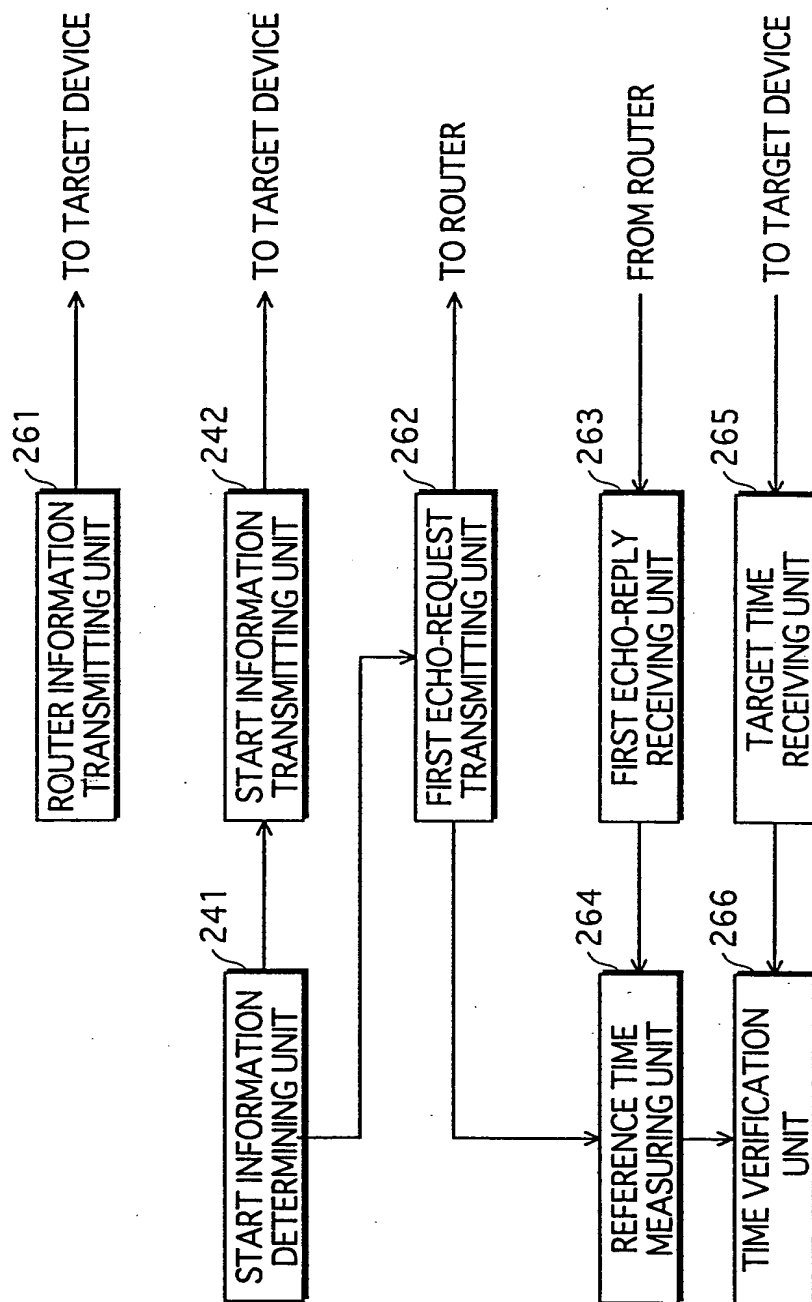


FIG.17

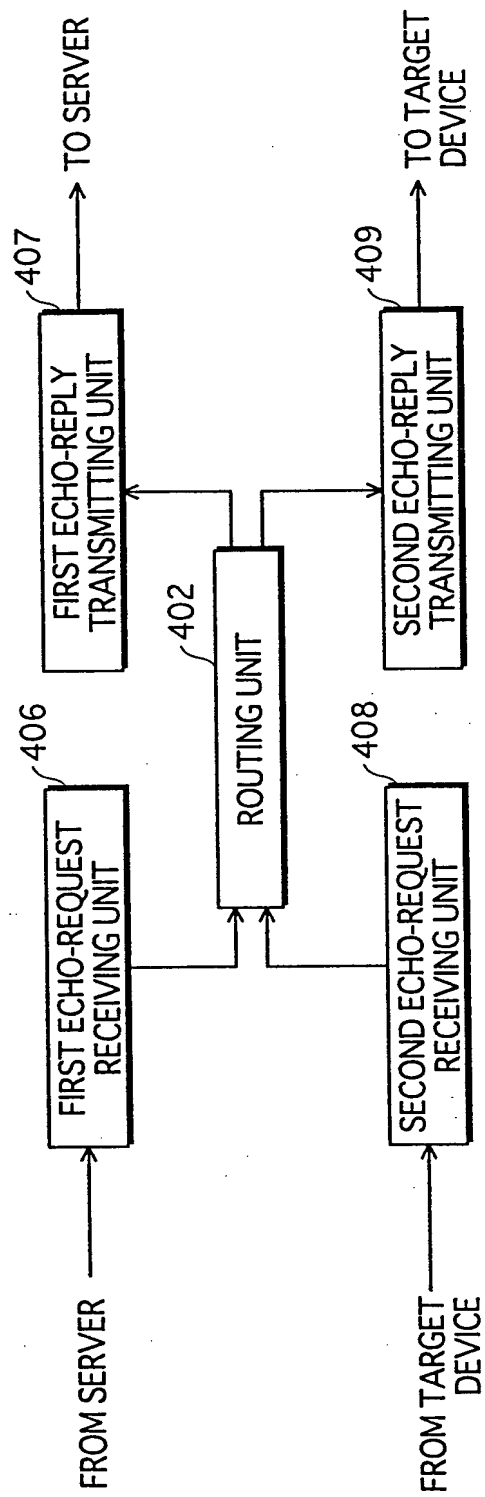


FIG.18

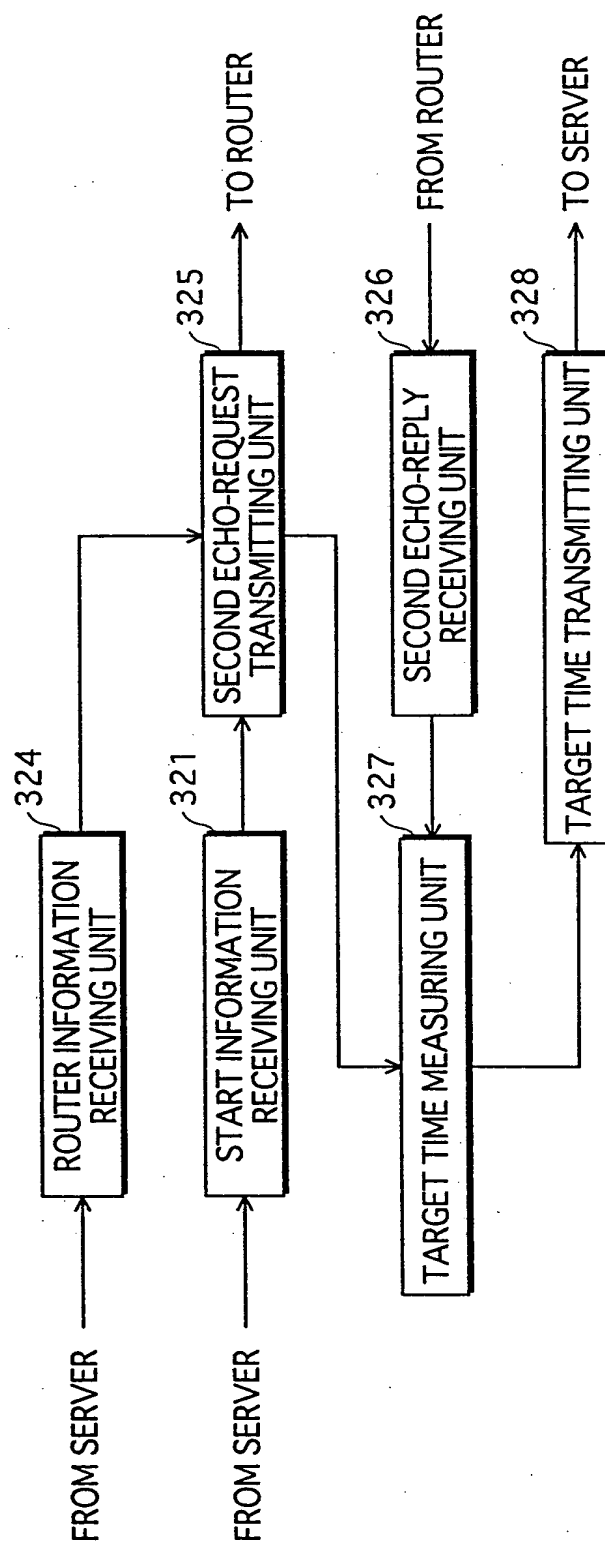


FIG.19

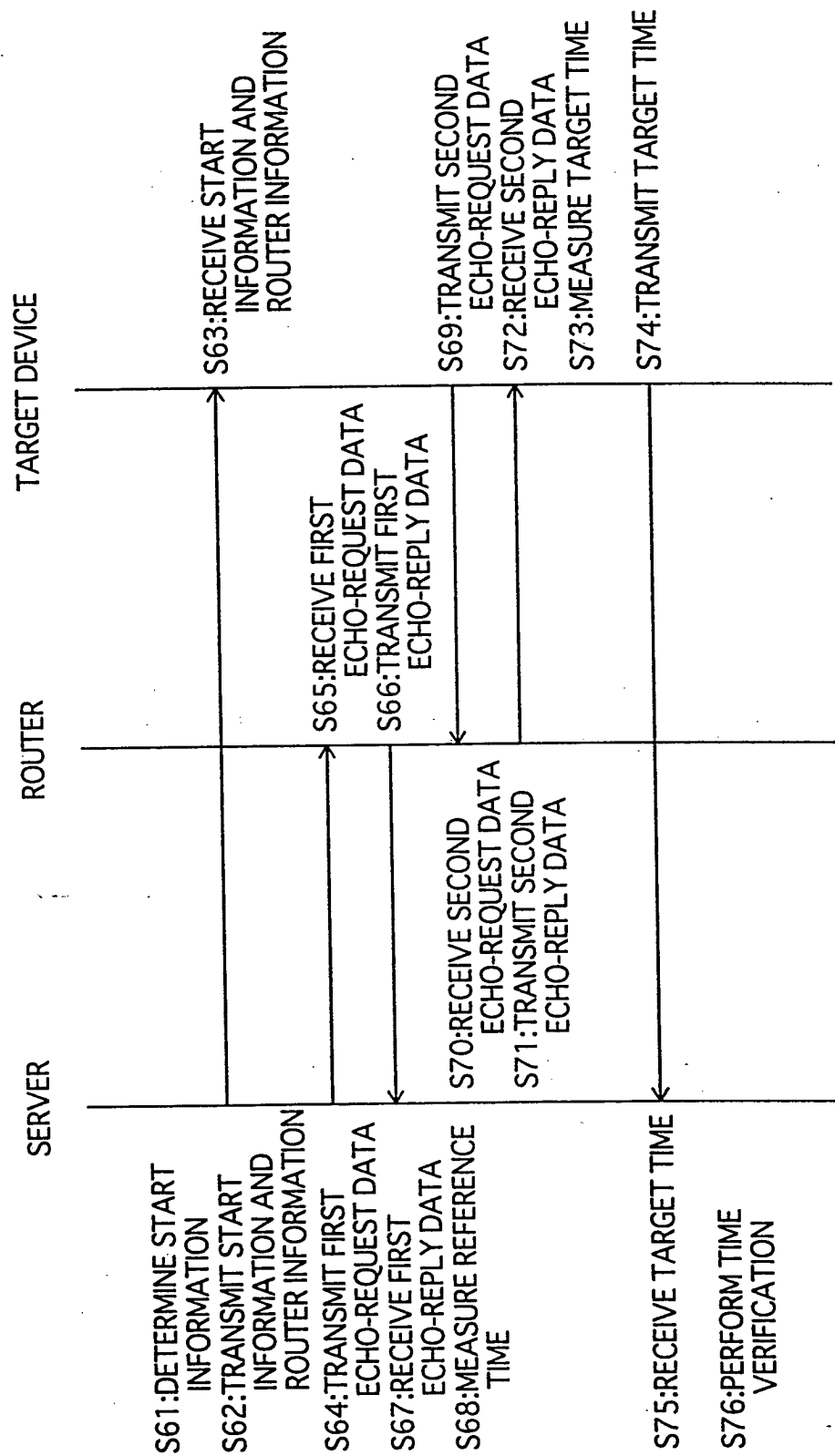


FIG.20

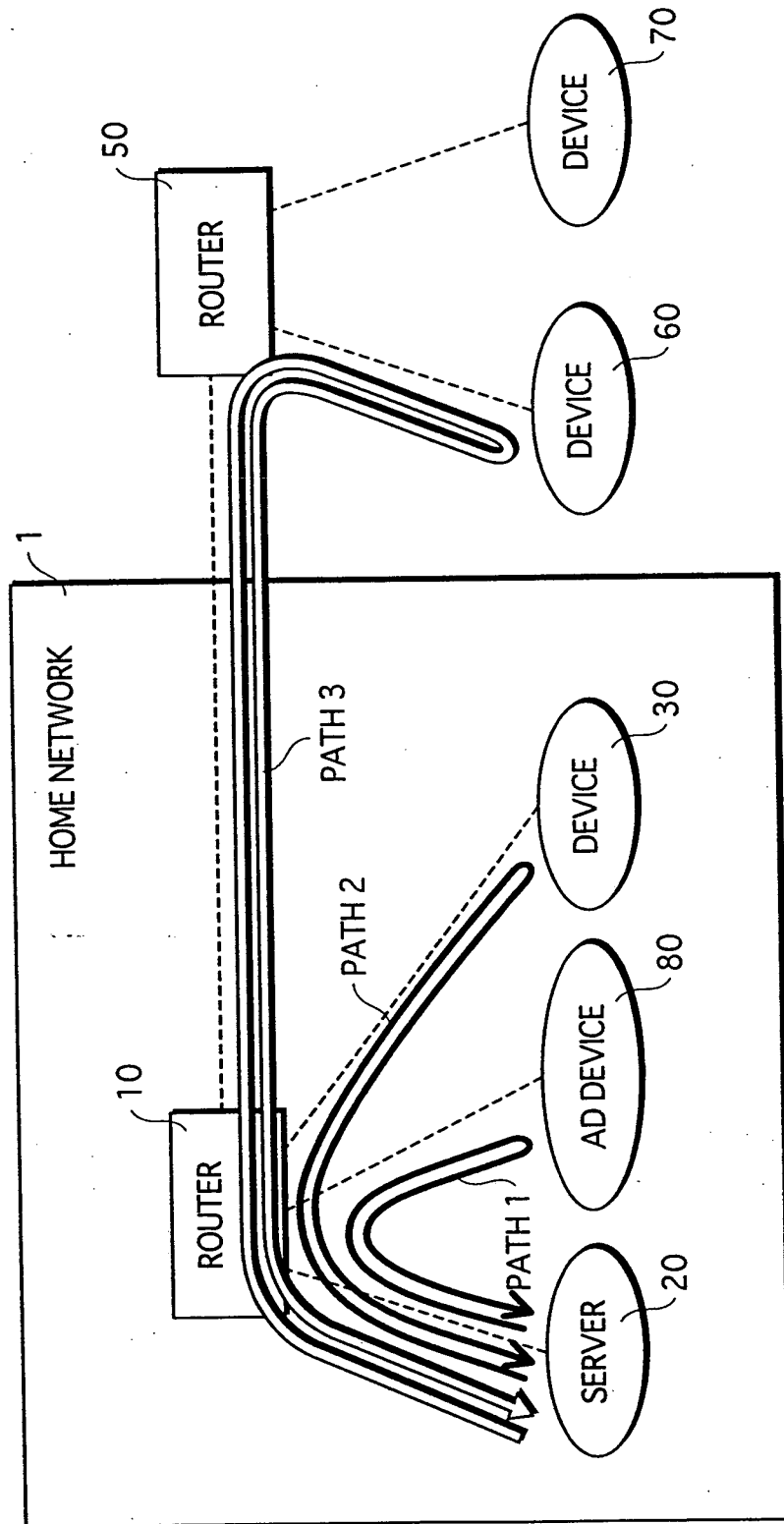


FIG.21

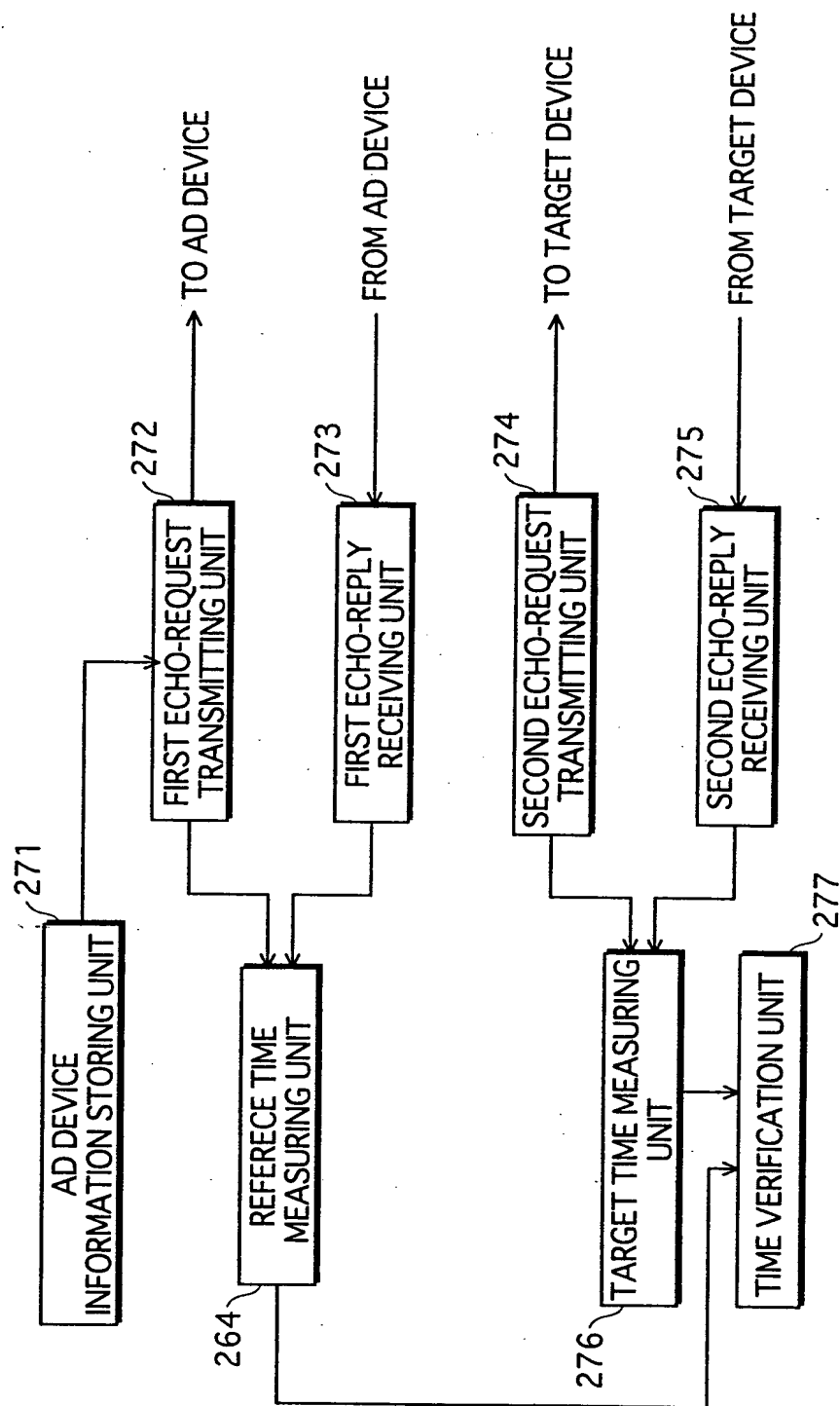


FIG.22

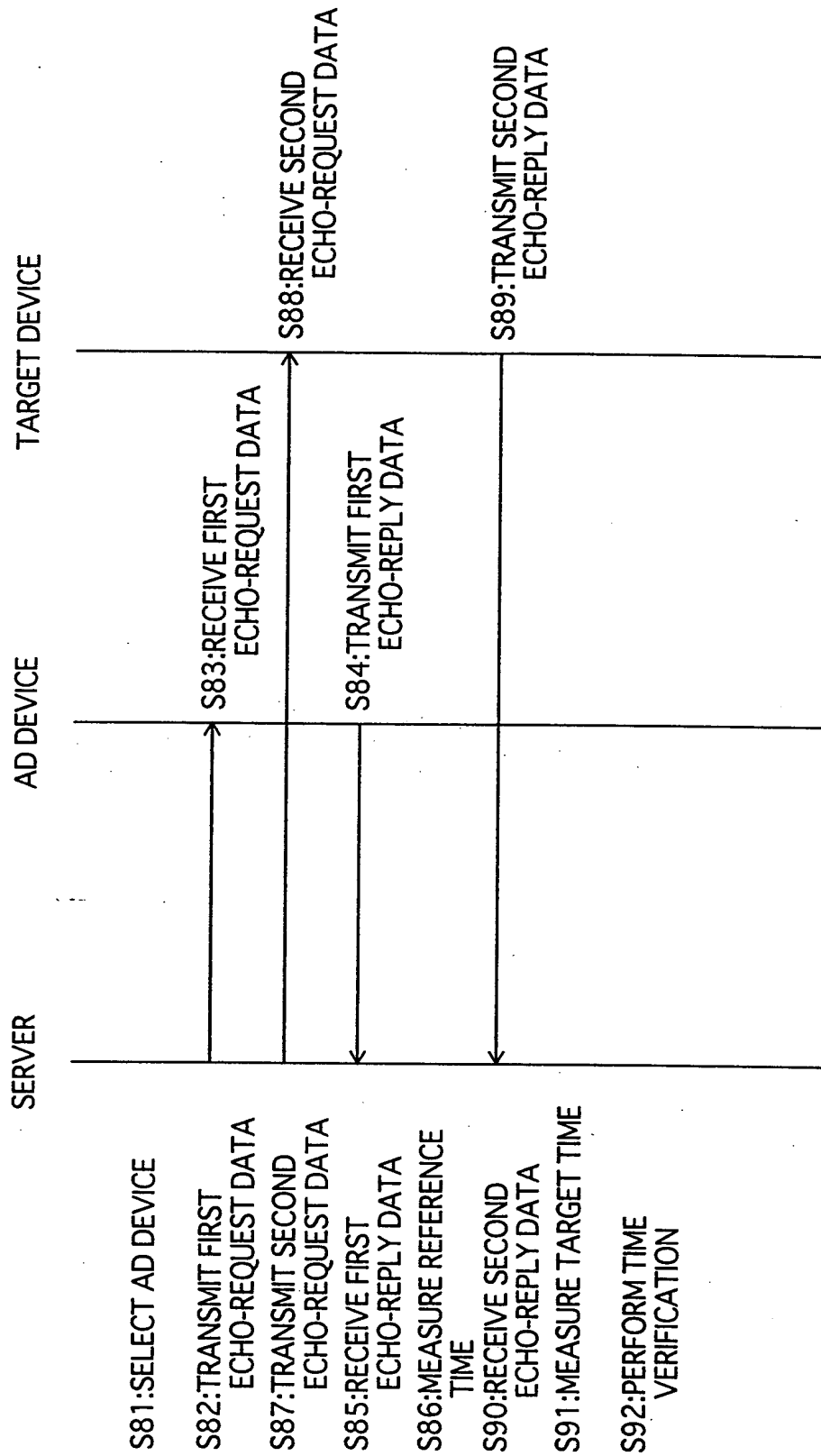
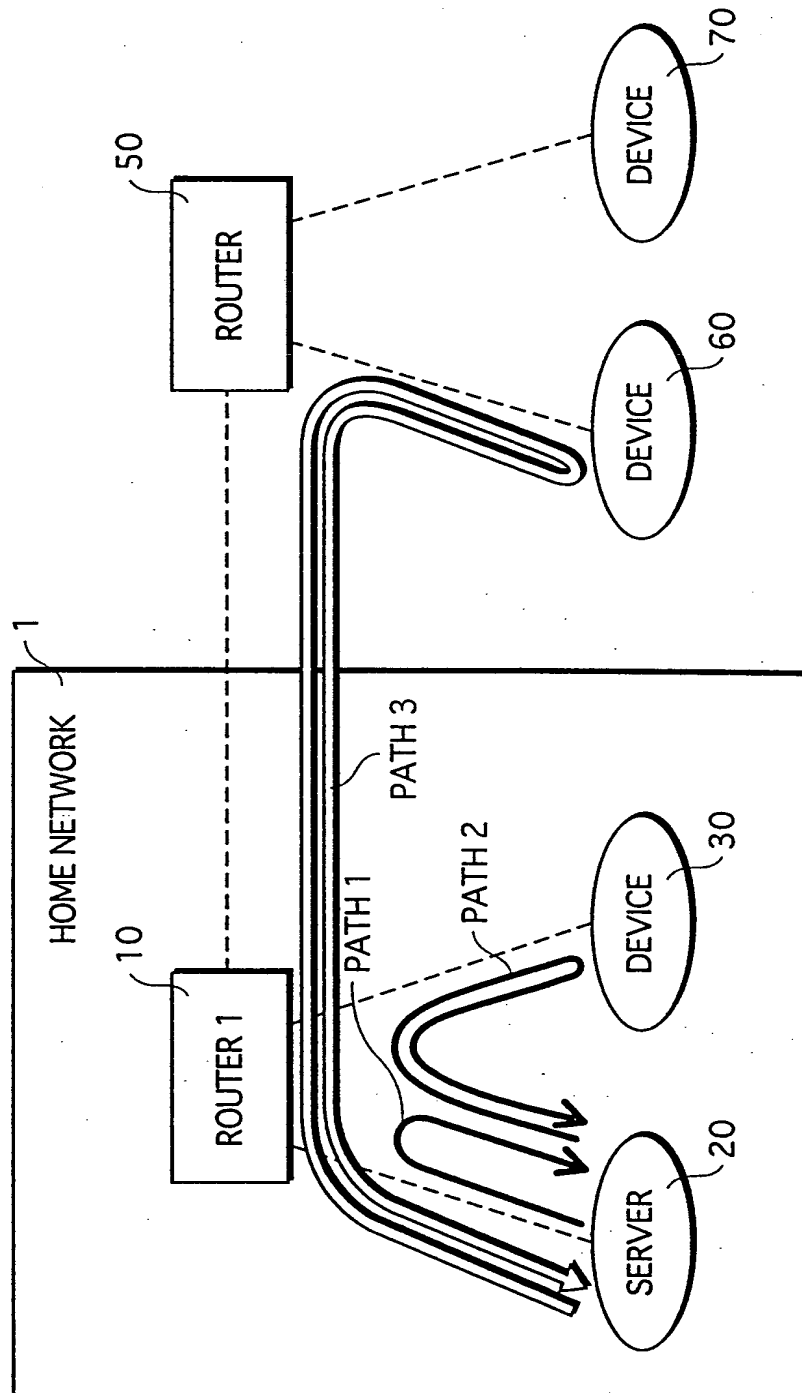


FIG.23



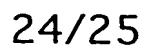


FIG.25

